

TS YUKHNO, Z.I.

Function of the thyroid gland in diabetes mellitus according to
the radioactive iodine index and basal metabolism. Probl. endok.
1 gorm. 6 no. 3:86-90 My-Je '60. (MIRA 14:1)
(DIABETES) (IODINE-ISOTOPES) (THYROID GLAND)
(BASAL METABOLISM)

GELLMAN, D.S.; TSYUKHNO, Z.I.

Coma in chronic adrenal gland insufficiency. Trudy Ukr.nauch.-
issl.inst.eksper.endok. 18:244-249 '61. (MIRA 16:1)
(COMA) (ADRENAL GLANDS--DISEASES) (ADDISON'S DISEASE)

LEVIN, Ya.F.; TSYUKHNO, Z.I.

Method for the X-ray therapy of Itsenko-Cushing's disease and
its late results. Trudy Ukr.nauch.-issl.inst.eksper.endok.
18:265-271 '61. (MIRA 16:1)
(CUSHING SYNDROME) (X RAYS—THERAPEUTIC USE)

PERIODICAL MEDICAL INFORMATION FOR DOCTORS
TICERPTA MEDICA Sec 7 "ol 13/7 Pediatrics July 49

1621. DIABETES MELLITUS COUPLED WITH DIABETES INSIPIDUS IN A CHILD OF 10 (Russian text) : Tsukhno Z.I. - PEDIATRIYA 1957, 11 (83-85)

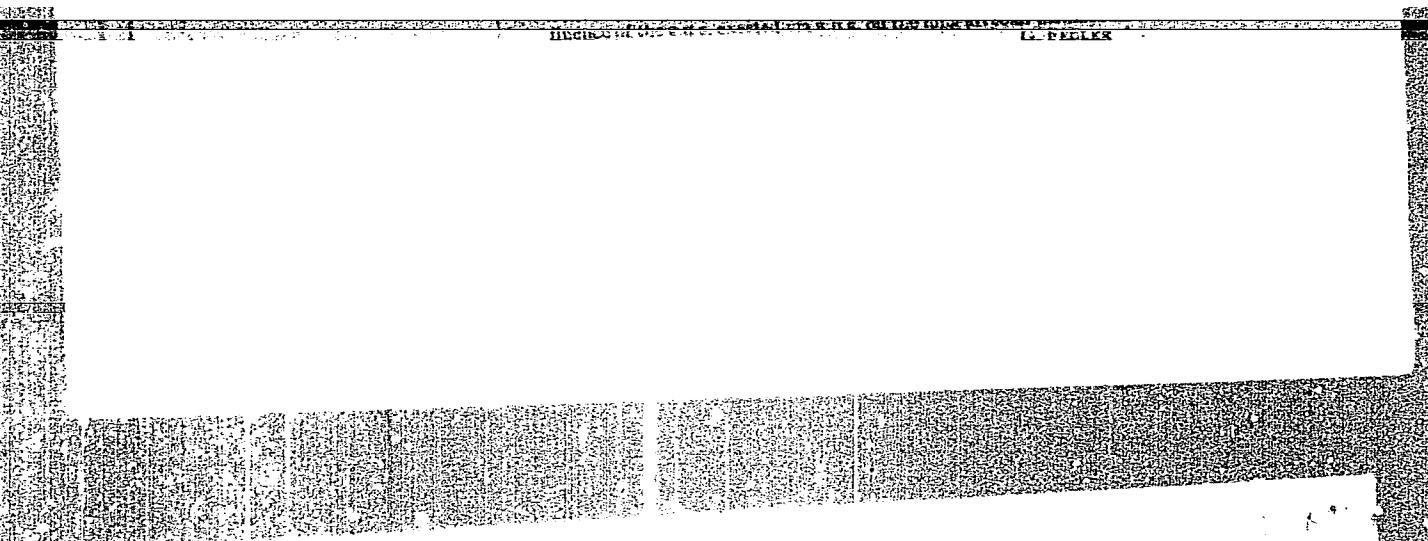
- This was the first case in a child observed among 128 diabetes insipidus patients in the last 25 yr. At the age of 8 yr., diabetes mellitus was diagnosed subsequent to severe scarlatina. Twenty to 30 U. insulin were given daily, but the boy became progressively thinner and developed polydipsia and polyuria; there was progressive deterioration of the visual acuity. At the beginning of hospital treatment the patient had polyneuritis, dry skin, liver enlargement, diabetic cataract, polydipsia (up to 2 pailfuls of water daily), and polyuria. The s.g. of the urine was between 1001 and 1006; urinary sugar 0.1-0.8 mg. per 100 ml.; blood sugar 230-355 mg. per 100 ml. Notwithstanding the slight glycosuria, thirst and dystrophy failed to respond to treatment with 24 U. insulin daily in 2 injections and corresponding diet. Only after additional administration of adluretin powder (0.025 g., 2-3 times per day) were the thirst and the diuresis reduced and the urinary s.g. increased slightly to 1010-1013. After 1.5 months' hospital treatment there was no weight gain and no improvement of appetite. The prognosis of this combined picture may be unfavourable.

Hansler - Tübingen (VII, 3)

*Chair of Endocrinology,
Ukr Inst Advanced Training
of Physicians*

"APPROVED FOR RELEASE: 08/31/2001

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TSYUNAYTIS, G. K. Cand Phys-Math Sci -- (diss) " On the problem of application of double-configuration approximations on the basis of self-coordinated "Khartri"⁷⁷ field." Vil'nyus, 1956. 7 pp 20 cm. (Vil'nyus State U im V. Kapsukas. Phys-Math Faculty), 100 copies

(KL, 7-57, 104)

7

10/4/87 11:27 G.K.

Category : USSR/Atomic and Molecular Physics - Physics of the Atom

D-1

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3359

Author : Tsyunaytis, G.K., Kibartas, V.V., Yutsis, A.P.

Inst : Vil'nyius University, Physicotechnical Institute, Academy of Sciences
Lithuanian SSR

Title : Self-Consistent Field for the Fundamental Configuration of Helium Type
Atoms.

Orig Pub : Optika i spektroskopiya, 1956, 1, No 1, 5-8

Abstract : A solution was obtained for the equations of the self-consistent field
for the ground states of H⁻, He, Li⁺, Be²⁺, B³⁺, and C⁴⁺. The values
of the energy parameters ξ_{1s1s} of the radial integral F_0 (1s1s) and
of the energy are given for all cases, as are the radial functions of
H⁻, B³⁺, and C⁴⁺. All the calculations were performed with greater ac-
curacy than in the calculations previously made on analogous atoms.

Card : 1/1.

Tsyunaytis, G. K.

USSR/ Physical Chemistry - Atom

B-3

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7129

Author : Tsyunaytis, G.K., Kibartas V.V., and Yutsis A.P.

Inst : Not given

Title : The Self-Consistent Field for the Ground State Configuration of Helium-Type Atoms

Orig Pub : Optika i spektroskopiya, 1956, No 1, 5-8

Abstract : The equation of the self-consistent field has been solved for the ground state of H⁻, He, Li⁺, Be²⁺, B³⁺, and C⁴⁺. Values for the energy parameters $1s'1s$ are given as well as for the integral $F_0(1s, 1s)$ and for the energy. The radial wave functions for H⁻, B³⁺, and C⁴⁺ are given. All the calculations have been carried out with greater accuracy than previous treatments of similar atoms.

Card 1/1

- 3 -

TSYUNAYTIS, G.K. [Giunaitis, G.K.]; KIBARTAS, V.V.; YUTSIS, A.P. [Jucys, A.P.]

Self-consistent field for the basic configuration of helium-type atoms. Optika i spektr. 1 no.1:5-8 May '56. (MIRA 9:11)

1. Vil'nyusskiy gosudarstvennyy universitet i Fiziko-tehnicheskiy institut AN Litovskoy SSR.
(Nuclear shell theory)

B S S R ,

This configuration approximation is the case of the 137+138 configuration of the carbon atom. A. J. L. Dierckx and A. P. Yaris (State Univ. William Lithuania 88.2), *Zhar. fiz.*, **1**, *Puret. FG.*, 28, 679-682 (1983); *J. C. A.*, 48, 3546. Solutions are obtained for the Hartree self-consistent field equation for the 122/2pi configuration of the atom. These solutions are then used to generate the relevant configuration approximation.

The Hartree self-consistent field equation is solved by the variational method. The basis functions are chosen to be the atomic orbitals of the Hartree approximation. The basis functions are chosen to be the atomic orbitals of the Hartree approximation.

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CIA-RDP86-00513R001757320019-6"

TSYUKSHA, L. V.

"Latvian 'Darkheaded' Breed of Sheep and Their Further Improvement Within the Zone of Activity of the 'Gospolemrasadnik' (State Breeding Station)." Cand Agr Sci, All-Union Sci Res Inst of Animal Husbandry, Moscow, 1953. (RzhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

TSYUNAYTIS, G. K.

USSR/Nuclear Physics - Atomic Terms

Nov 52

"Triplet Splitting of Atomic Terms With Vivalent 2p-Electron," A. P. Yutsis,
V. K. Shugurov, and G. K. Tsyunaytis, Vilno State Univ

"Zhur Eksper i Teoret Fiz" Vol 23, No5, pp 517-524

Determined triplet splitting of atoms of He type in configuration $2p^2$ and Be type
 $1s^2 2p^2$ by means of analytic wave functions. Triplet splitting of Be atom in
 $1s^2 2p^2$ and also splitting of basic configuration of neutral C atom and doubly
ionized O atom are determined by single electron wave functions, constituting
solutions of equations of self-conforming Fok's field. Received 21, Jul 52.

PA 236T73

TSYUNAITIS, G. K.

Yutsis, A. P., Nakonechnyi, A. S., and Tsyunaitis, G. K. - "Theoretical determination of the isotopic mixture in the spectrum of the carbon atom." (p. 683)

SO: ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 1953, Vol. 25, No. 6 (12)

TSYUNAYTIS, G. K.

PA 200172

USSR/Nuclear Physics - Be Atom

Nov 52

"Self-Conforming Fok's Field for Configuration
 $1s^2 2p^2$ of Beryllium," A. P. Yutsis and G. K.
Tsyunaytis, Vilno State Univ

"Zhur Eksper i Teoret Fiz" Vol 23, No 5, pp 512-
516

Solves Fok's equation for the configuration
 $1s^2 2p^2$ of Be atom. Standardized solutions are
presented in form of tables and the latter is
used to evaluate energies. Results are estimated
to be better than those obtained by means of wave
functions. Received 5 Jun 52.

236T72

TSYUNAYTIS, G.K.

YUTSIS, A.P.; NAKONECHNYY, A.S.; TSYUNAYTIS, G.K.

Theoretical determination of the isotopic shift in the spectra
of hydrogen atoms. Zhur.eksp. i teor.fiz. 25 no.6:683-687 D '53.
(Hydrogen--Spectra) (Spectrum, Atomic) (MLRA 7:10)

1. YUTSIS, A. P. ; SHUQROV, V. K. ; TSYUNAYTIS, G. K.
2. USSR 600
4. Nuclear Physics
7. Triplet fission of the terms of atoms with two-valence 2p electrons, Zhur. eksp. i teor. fiz., 23, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. YUTSIS, A. P.; TSYUNAYTIS, G. K.
2. USSR 600
4. Nuclear Physics
7. Self-adjusted Fock field for the configuartion of the $1s^2 2p^2$ atom of beryllium,
Zhur. dksp. i teor. fiz., 23, No. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TSYUNAITIS, G. A.

Tsyunaitis, G. R. and Yutsis, A. I. - "A two-configurational approximation in the case of the $1s^2 2s^2 2p\ 3s$ configuration of the carbon atom." (p. 679)

SO: ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 1953, Vol. 25, No. 6 (12)

TSYUNCHIK, R.I.

Fish Culture

Conference of republics on the still water fish industry. Ryb. khoz. 28, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ^{ACQUISIT 1952} ~~1952~~ 1953. Unclassified.
~~SECRET~~

1. TSYUNCHIK, R.I.
2. USSR (600)
4. Fish Culture
7. Soviet pond economy., Ryb.khoz., 28, No.11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

USSR / Microbiology. Hygienic Microbiology.

F-4

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90851

Author : Teternik, D. M.; Tsvinskaya, T. A.; Freydlin, Ye. M.
Inst : Moscow Technological Institute for Meat and Dairy
Industries

Title : The Problem of Detection and Survival of Brucella in
the Meat of Sheep Which React to Brucella

Orig Pub : Tr. Mosk. tekhnol. in-t myasn. i molochn. prom-sti,
1958, vyp. 7, 3-6

Abstract : No abstract given

Card 1/1

TSYUNGKAYA, T. A.; CHERNIN, V. G.; TETERNIK, D. M.

"On incorrect inspection of livers affected with "capillary ectasia."

SO: Veterinariia 29 (6), 1952, p. 43

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320019-6

ISYUNSKAYA, I. A., CHERNIN, V. G. and PETERNIK, D. M.

"Neurogenous tumours in cattle."

Veterinariya, Vol. 37, No. 5, 1960, p. 56

Moscow Tech. Inst. Meat and Fat Industry

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320019-6"

TETERNIK, D.M., TSYUNSKAYA, T.A., CHERNIK, V.G.

Kidneys

Incorrect condemnation of liver affected with "capillary ecstasy." Veterinariia 29,
no. 6, 1952.

AUGUST 1952

~~1952~~ Uncl.

9. Monthly List of Russian Accessions, Library of Congress,

COUNTRY : USSR R
CATEGORY : Diseases of Farm Animals. Diseases Caused by
Infectia and Fungi
ART. JOUR. : Tekhnol., No. 13, 1956, No. 59732

AUTHOR : Tsyunskaya, T. A.
INST. : Moscow Technological Institute of Meat and*
TITLE : Mixed Forms of Siberian Plague and Tuberculosis
which Are Found at Veterinary-Sanitary Inspection
of Pigs
DATE. PUB. : Tr. Mosk. tekhnol. in-ta myas. i moloch. prom-sti
1956, vyp. 6, 212-216
ABSTRACT : Three cases of the mixed form of Siberian plague
and tuberculosis of swine with the affection of
only submaxillary lymphatic nodes were discovered
during the sanitary inspection of swine carcasses
at the slaughterhouse.

* Dairy Industry

Card: 1/1

TSYUNSKAYA, T. A.

USSR / Medicine, Veterinary - Meat
Products

Jun 52

"Erroneous Rejection of Liver of Animals Affected
With Capillary Ectasia," D. M. Teternik, T. A.
Tsyunskaya, V. G. Chernin

"Veterinariya" No 6, pp 43-46

PA 228T44
Discusses the rejection by health authorities of
animal livers affected with capillary ectasia as
unfit for human consumption. Authors admit that
though no actual explanation of this condition
has been found, laboratory exams of the liver in

killed animals revealed no anaerobic pathogenic
microflora at the focal points of capillary
ectasia. Authors conclude that the current re-
jection of liver affected with this condition
deprives the population of 17% of animal liver
which could be used for food.

228T44

228T44

TETERNIK, D. M., TSYUNSKAYA, T. A., CHERNIN, V. G.

Kidneys

Incorrect condemnation of liver affected with "capillary ectasy." Veterinaria 29.
No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.
2

PETERNIK, D. N., TSYUNSKAYA, T. A., CHERNIN, V. G.

Meat Inspection

Incorrect condemnation of liver affected with "capillary ectasy." Veterinariia 29 no. 6,
1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320019-6

ABKIN, B.V., inzh.; LOSEV, A.S., inzh.; SOFRYGIN, P.V., inzh.; SLOBODYAN, I.P.,
inzh.; TSYUPA, F.P., inzh.

Start of the leading PK-47 boiler. Elek. sta. 35 no.9:2-5 S '64.
(MIRA 18:1)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320019-6"

KUPREVICH, V.F.; TSYUPA, G.P.; SHCHERBAKOV, T.A.

Glutamic acid synthesis in soil. Dokl. AN BSSR 8 no.11:745-746
N '64. (MIRA 18:3)

1. Otdel fiziologii i sistematiki nizshikh rasteniy AN BSSR.

GALSTYAN, A.Sh.; TSYUPA, G.P.

Some problems in studying the activity of amidases in soils. Izv.
AN Arm. SSR. Biol. nauki 12 no.10:83-87 O '59. (MIRA 13:3)

1. Laboratoriya agrokhimii Akademii nauk Armyanskoy SSR.
(SOIL BIOLOGY) (ASPARAGINASE) (UREASE)

IVANOV, Ye.G.; KORCHAGIN, V.N.; TSYUPA, N.I.

More about multipurpose drilling crews. Neft. khoz. 42 no. 5:
24-26 My '64.
(MIRA 17:5)

IVANOV, Ye.G.; KORCHAGIN, V.N.; TSYUPA, N.I.

More about multipurpose drilling crews. Neft. khoz. 42 no. 5:
24-26 My '64. (MIRA 17:5)

TSYUPA, O.

Dikan'ka, Russia

An evening on a collective farm near Dikan'ka, Mol. kolkh, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

TSYUPA, O.

Gogol', Nikolay Vasil'y Evich, 1809-1852

An evening on a collective farm near Dikan'ka, Mol. kolkh, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

8/190/63/005/002/016/024
B101/B102

AUTHORS: Maygel'dinov, I. A.; Tayur, K. I.

TITLE: Thermomechanical properties of crystalline polymers.
II. The polymer of 3,3-bis-(chloromethyl)-oxacyclobutane

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 2, 1963,
252-257

TEXT: The thermomechanical curves $E(t)$ were plotted for pentoplast, the thermoplastic polymer of 3,3-bis-(chloromethyl)-oxacyclobutane $[-\text{CH}_2-\text{C}(\text{CH}_2\text{Cl})_2-\text{CH}_2\text{O}-]_n$, between -196 and $+100^\circ\text{C}$, and in crystalline samples the thermostability T_{32} was determined, i.e., the temperature at which

Young's modulus E is 32 kg/cm^2 . In amorphous samples T_{100} was determined.

Results: $\log E - f(t)$ shows 3 inflections. That at -5°C corresponds to the glass transition point T_g . Below T_g , $E = 45000 - 110 t$; directly above T_g , E falls sharply, then the curve is very flat. This indicates that pentoplast crystals have many defects. The third inflection corresponds to T_{32} .

Thermomechanical properties of ...

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B101/B102

the melting point. In amorphous samples, $T_{100} = 80^\circ\text{C}$, in crystalline samples $T_{32} = 174^\circ\text{C}$. In amorphous samples, the thermomechanical curve had a maximum at 30°C owing to spontaneous crystallisation of the sample. The correlation existing between the pour point T_f and the reduced viscosity is: $T_f = 173 + 202 \log \eta_r$. When amorphous samples are made to crystallize between 15 and 80°C , the change of E is expressed by $E = 9000/[1 + [(9000 - 18)/18] \exp(-\alpha t)]$, where t is the time of crystallization and $\alpha = 126 \cdot 10^{-9}(t - 5)^{4.03}$. The increase of E from 18-20 to 2000 kg/cm^2 is suggested as characteristic of crystallinity. Therefore $\log 100/t = 0.80 - 0.0167 t$. There are 5 figures and 3 tables. The English-language reference is: D. Y. H. Sandiford, J. Appl. Chem., 8, 188, 1958.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut polimerizatsionnykh plastmass (State Scientific Research Institute of Polymerisation Plastics)

SUBMITTED: August 26, 1961

Card 2/2

MAYGEL'DINOV, I.A.; TSYUR, K.I.

Thermomechanical properties of crystalline polymers. Part 2:
Polymer of 3,3-bis(chloromethyl)oxacyclobutane. Vysokom.sod.
5 no.2:252-257 F '63. (MIRA 16:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut polimeri-
zatsionnykh plastmass.
(Oxetane) (Polymer crystals)

MAYGEL'DINOV, I.A.; TSYUR, K.I.

Thermomechanical properties of crystalline polymers. Part 1:
Polyethylene. Vysokom. soed. 5 no.2:243-251 F '63.

(MIRA 16:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut polimeri-
zatsionnykh plastmass.
(Polyethylene crystals)

8/190/63/005/002/015/024
B101/B102

AUTHORS:

Maygel'dinov, I. A., Tayur, K. I.

TITLE:

Thermomechanical properties of crystalline polymers.
I. Polyethylene

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 5, no. 2, 1963,
243-251

TEXT: A study was made of the correlation between the modulus of elasticity E of high-density polyethylene (HDPE), low-density polyethylene (LDPE), and ethylene-propylene copolymer (EPO), and of the crystallinity, by plotting the E-versus-d and E-versus-t curves, where d is the density and t the temperature between the melting point and -196°C. The effect of the storage time on E in 5 hrs - 10-year-old HDPE samples was also studied. Results: The relation $E = cTd(1 + n)/mn$ holds for d and E, where c is a constant, m is the weight of one monomer link, and n is the number of links between the crystallized links. Calculation of the crystallinity of polyethylene yielded: $X = 2800 E/(155 Td + 28E)$, %. Moreover, the relation $n_E = (4 - \log E)/0.1725$ holds between the effective branching degrees

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B101/B102

Thermomechanical properties of ...

and E . n_E differs from the branching degree, n_B , determined spectroscopically, a linear dependence existing between n_B and n_E . The branches of HDPE do not consist of methyl but of ethyl or propyl groups, while in LDPE and EPO the methyl groups are bound directly to the main chain. The thermomechanical curves $\log E = f(t)$ for LDPE show a break at -20°C and an indistinct inflection between -60 and -100°C ; whereas HDPE shows only one distinct break at -65°C . It is concluded that the glass transition point T_g of both types of polyethylene is at -65°C . The break T_{32} near the m.p. denotes the temperature where $E = 32 \text{ kg/cm}^2$ and characterizes the heat resistance. For temperatures below T_g , $E = a + bt$, where for polyethylene $a = 14,000$ and $b = -120$. In the range between T_g and T_{32} $\log E = a + \beta t$, with $\alpha = 3.55$, $\beta = -0.0127$. From $E(t)$, T_g and T_{32} as well as the degree of crystallization and its temperature dependence can be determined. The effect of the storage time, t_s , is described by $\log E = a + b \log t_s$, where a and b depend on the branching degree and the method of the cooling of the polyethylene melt. For quenched polyethylene, $a = 2.96$ and $b = 0.033$; for polyethylene cooled slowly $a = 3.21$ and $b = 0.020$. There

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RDP86-00513R0017573200

S/191/61/000/003/001/015
B124/8203

AUTHORS: Maygel'dinov, I. A., Grigor'yeva, A. V., Tayur, K. I.

TITLE: Effect of molecular weight and some other factors on the properties of styrene and dichloro styrene polymers

PERIODICAL: Plasticheskiye massy, no. 3, 1961, 7-12

TEXT: The present paper describes an attempt of studying experimentally the quantitative dependence of some technical properties of polymers on their molecular weight by means of practical examples. The authors determined the deformation curves, the modulus of elasticity, the resistance to heat and impact, and the flowing point of polystyrene and polydichloro styrene specimens with different molecular weights; besides the effect of molecular weight, they also determined that of temperature, of quenching, of the filler, and of the amount of residual monomer on the properties of the polymer. Specimens with different molecular weights were prepared by thermomechanical destruction on rolls at 100-135°C in polystyrene, and at 130°C in polydichloro styrene; besides, the authors studied some specimens obtained by emulsion-, block-, and graft polymerization. The molecular

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Effect of molecular weight...

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B124/B203

weight of polystyrene was calculated from the equation $\log [\eta] = -4.021 + 0.744 \log M$ (1), and that of polydichloro styrene from V. N. Tsvetkov's equation: $[\eta] = 1.259 \cdot 10^4 \cdot M^{0.69}$ (2). The viscosity of unbroken specimens was determined in benzene at 25°C. The modulus of elasticity E at a temperature below the vitrification point T_v was determined from the bending deformation of the specimen lying on two supports by means of the modulus meter of NIIPP. The dependence of deformation on temperature at medium temperatures was determined by indentation of a ball, diameter 6 mm, and a 1-kg load applied to it. The temperature dependence of deformation at high temperatures was determined by a new method basing on a determination of deformability of the material under the action of its own weight with gradual increase of temperature. The authors studied the dependence of physicomechanical properties of polydichloro styrene on the molecular weight for molecular weights between 664,000 and 43,600 (Table 1), and those of polystyrene for molecular weights between 641,000 and 45,800 (Table 2). In the range studied, the modulus of elasticity is independent of molecular weight. The deformation curve and its position on the temperature scale is practically independent of the molecular weight of the

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Effect of molecular weight...

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polymer. The resistance to heat T_{100} of the polydichloro styrene specimens examined is, independently of the molecular weight, equal to $146 \pm 2^\circ\text{C}$, and that of polystyrene $109 \pm 2^\circ\text{C}$. The specific impact strength is independent of the molecular weight in the range $M = 500,000 - 120,000$. The relations $T_f = -278 + 89.3 \log M$ (3) and $T_f = -225 + 89.0 \log M$ (4) hold for the following temperature of polystyrene and polydichloro styrene as dependent on the molecular weight. Table 3 shows the heat resistance factors T_{100} of some polystyrene specimens made by various procedures and their monomer content. Fig. 5 shows the effect of the introduction of fillers on the modulus of elasticity and the heat resistance of polystyrene. Fig. 6 shows the temperature dependence of polystyrene deformation on the basis of some test results. Heating the specimens to T_g or less, and cooling them at different rates, show that the cooling rate does not influence the Martens heat resistance (Table 4). On both sides of the vitrification point, there is a $15-20^\circ\text{C}$ wide range in which the modulus of elasticity depends on the cooling rate in the conversion from the highly elastic to the amorphous state. Fig. 7 illustrates

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Effect of molecular weight...

S/191/61/000/003/001/015
B124/B203

the temperature dependence of the logarithm of the modulus of elasticity. At temperatures below T_g , the temperature dependence of the modulus of elasticity is represented by a straight line whose equation is $E = 41,800 - 66t$ (6) for polydichloro styrene, and $E = 31,400 - 73t$ (7) for polystyrene. T. V. Trofimova and Zimin (Ref. 7; POKh, 6, no.2, 101 (1939)) are mentioned. There are 8 figures, 4 tables, and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: W. R. Krigbaum, P. J. Flory, J. Polymer Sci., 11, no.1, 37 (1953)).

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S/191/61/000/003/001/015
B124/5203

Effect of molecular weight...

(1) Способ изготовления образца	(2) Продолжительность вальцевания, минуты	(3) Характеристическая вязкость	(4) Молекулярный вес	(5) Логарифм молекулярного веса	(6) Температура текучести, °C	(7) Термостойкость T ₁₀₀ , °C	(8) Модуль упругости при 20°C, кГ/см ²
(9) Порошок	—	1,31	664000	5,822	—	—	—
(10) Прессование	0	1,18	571000	5,757	289	148	42000
(11) Вальцевание+прессование	3	0,49	160000	5,204	236	147	41300
	5	0,39	115000	5,061	225	147	41400
	10	0,28	71000	4,851	209	146	41700
	15	0,19	40400	4,606	192	144	40800
	20	0,25	60200	4,780	202	147	40700
	30	0,23	53300	4,727	198	144	41200
	45	0,20	43600	4,639	197	—	42100
	60	0,20	43600	4,639	197	145	41800

Table 1

Table 1: Dependence of physicomechanical properties of polydichloro styrene on the molecular weight.

Legend: (1) Production method of the specimen, (2) time of rolling, min, (3) intrinsic viscosity, (4) molecular weight, (5) logarithm of the molecular weight, (6) flowing temperature, °C, (7) heat resistance, T₁₀₀, °C, (8) elastic modulus at 20°C, kg/cm²; (9) powder, (10) pressing, (11) rolling and pressing.

Card 5/11

Effect of molecular weight...

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Table 2

Способ изготовления образца	Продолжительность вальцевания минуты	Характеристическая вязкость	Молекулярный вес	Логарифм молекулярного веса	Температура текучести, °C	Теплостойкость T_{100} , °C	Модуль упругости при 20° kГ/см²
Порошок	—	2,09	641000	5,807	—	—	—
Прессование	0	1,63	488000	5,688	230	105	30000
Вальцевание+прессование	3	1,25	343000	5,535	215	106	30000
	5	1,00	254000	5,404	203	106,5	30300
	10	0,88	212000	5,327	194	107,5	30100
	15	0,83	198000	5,298	191	107	29700
	20	0,72	163000	5,213	185	107	30300
	30	0,53	108000	5,034	163	108	30600
	45*	0,74	169000	5,229	187	109	30200
	60*	0,82	198000	5,296	187	110	29400
(10) Прессование							
(11) эмульсионный полистирол «Д»	0	1,00	253000	5,403	205	108	31000
(12) блочный полистирол «К»	0	0,92	226000	5,355	190	92	30000
(13) блочный полистирол «Н»	0	1,10	289000	5,460	197	98	31200
(14) бисерный полистирол «Л»	0	0,28	45800	4,662	131	90	—

(14) Вальцевание производилось при 135°. В остальных случаях—при 100—110°.

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Effect of molecular weight...

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Legend to Table 2: Dependence of physicomechanical properties of polystyrene on the molecular weight. Nos. 1-11 as in Table 1, (12) emulsion polystyrene "Д" ("D"), (13) bulk polystyrene "К" ("K"), (14) bulk polystyrene "Н" ("N"), (15) bead polystyrene "Л" ("L"), (16) * the rolling was done at 135°C; otherwise at 100 - 110°C.

Table 3: Heat resistance of industrial lots of polystyrene and their content of residual monomer. Legend: (1) Polystyrene, (2) heat resistance, T₁₀₀, °C, (3) amount of residual monomer, %, (4) reprecipitated (bulk), (5) reprecipitated (emulsion type), (6) emulsion type "Д" ("D"), (7) emulsion type "С" ("S"), (8) bulk type "Н" ("N"), (9) bulk type "К" ("K"), (10) bead type "Л" ("L").
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Таблица 3

Теплостойкость производственных партий полистирола и содержание в них остаточного мономера

① Полистирол	② Термостойкость T ₁₀₀ °C	③ Количество остаточного мономера %
④ Переосажденный (блочный)	110	0,02
⑤ Переосажденный (эмulsionный)	112	0,05
⑥ Эмульсионный "Д"	108	0,07
⑦ Эмульсионный "С"	105	0,25
⑧ Блочный "Н"	98	0,57
⑨ Блочный "К"	92	1,25
⑩ Бисерный "Л"	90	1,55

Table 3

Effect of molecular weight...

Table 4: Dependence of the heat resistance of polystyrene on the production conditions of the specimen

Legend: (1) Specimen heated to temperature, (2) heat resistance according to Martens, °C, (a) specimen cooled, (b) quickly, (c) slowly, (3) temperature difference, °C.

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Таблица 4

Зависимость теплостойкости полистирола от условий подготовки образца

① Образец нагрет до температуры °C	② Термостойкость по Мартенсу, °C		③ Разность температур °C
	④ образец охлажден быстро	⑤ медленно	
60	82	82,5	0,5
70	82,5	82,5	0,0
80	82,5	83	0,5
90	83	86	3,0
100	67	87,5	20,5
115	65	86,5	21,5

Table 4

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Effect of molecular weight...

Fig. 5: Dependence of modulus of elasticity and heat resistance of polydichloro styrene on the filler concentration

Legend: (1) Heat resistance,
(2) modulus of elasticity, (a) heat
resistance according to NIIPP,
(b) modulus of elasticity, kg/cm²,
(c) filler concentration, %.

S/191/61/000/003/001/015
B124/B203

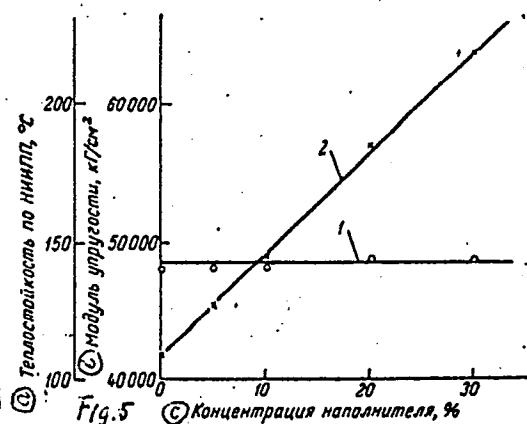


Fig. 5

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Effect of molecular weight...

Fig. 6: Temperature dependence of polystyrene deformation (in a Martens apparatus)

Legend: (1) and (1') quickly cooled specimens, (2) and (2') slowly cooled specimens, (a) deformation, mm, (b) temperature, °C.

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B124/B203

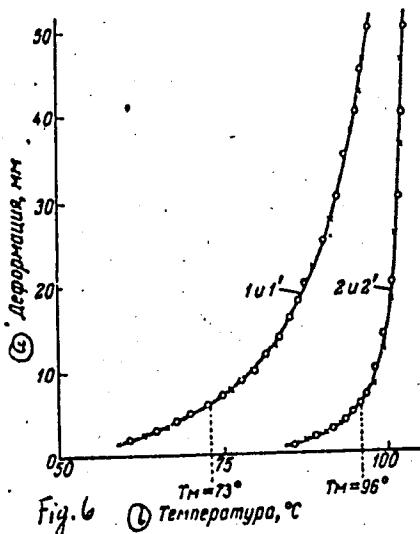


Fig. 6

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Effect of molecular weight...

S/191/61/000/003/001/015
B124/B203

Fig. 7: Temperature dependence of the logarithm of the modulus of elasticity

Legend: (1) Polystyrene, (2) poly-dichloro styrene, (a) logarithm of the elastic modulus, (b) temperature, °C.

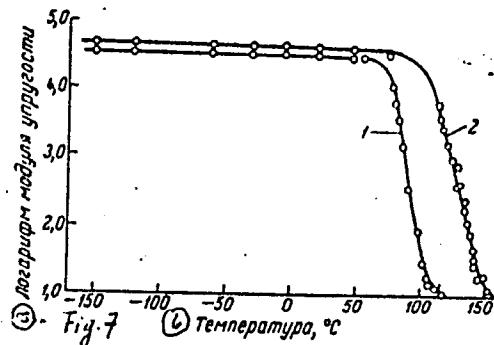


Fig. 7

Card 11/11

TSYURA, Vana Vladislavovna

Of the Changes of Toxicity of Some Alcohols Fat Rows for Insulation
of the Heart "R. Esculentae" under the Influence of Active Reaction of
Surroundings

Dissertation for candidate of a Medical Science degree. Chair of Pharmacology,
(head, Prof. K.A. Shmelev) and Volga (rayzdrav) Saratov Medical Institute,
1948

TSYURKO, A.I.

Radioiphosphorus therapy in certain skin diseases. Vest.rent.i rad.
34 no.2:91-92 Mr-Ap '59. (MIRA 13:4)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. A.I. Dombrowskiy) Rostovskogo-na-Donu meditsinskogo instituta.
(PHOSPHORUS, radioactive,
ther. of skin dis. (Rus))
(SKIN DISEASES, ther.
radioiphosphorus (Rus))

ROZENBERG, A.V., kand. med. nauk; TSYURKO, A.F., kand. med. nauk

Aleksandr Iosifovich Dombrovskii, 1890- ; on his 75th birthday.
(MIRA 18:6)
Med. rad. 10 no.6:94-95 Je '65.

ROZENBFRG, A.V., kand. med. nauk; TSYURKO, A.F. kand. med. nauk

Professor Aleksandr Iosifovich Dombrovskii, 1890-; on his 75th
birthday. Vest. rent. i rad. 40 no.4:77-78 Jl-Ag '65.
(MIRA 18:9)

NOSOV, Nikita Alekseyevich; TSYUPKO, Grigoriy Ivanovich; PETLYUK, Vladimir Iosifovich; BABAY, G.A., polkovnik, redaktor; MEDVEDEV, I.M., gvardii mayor, redaktor; MYASHIKOVA, T.F., tekhnicheskiy redaktor

[Flying a single-seater plane] Vozhdenie odnomestnogo samoleta. Pod red. G.A.Babai. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956.
247 p.

(MLRA 9:11)

(Airplanes--Piloting)

TSYUPO-GRAN, G.A. (Kherson)

Effect of meteorological factors on the course of vascular
diseases. Vrach.delo np.3:59-62 Mr '63. (MIRA 16:4)

1. 4-ya Khersonskaya gorodskaya bol'nitsa.
(BLOOD VESSELS—DISEASES)
(WEATHER—MENTAL AND PHYSIOLOGICAL EFFECTS)

MAYGEL'DINOV, I.A.; GRIGOR'YEVA, A.V.; TSYUR, K.I.

Effect of the molecular weight and of certain other factors on
the properties of styrene and dichlorostrene polymers. Plast.
massy no.3:7-12 '61. (MIRA 14:3)
(Styrene)

MAYGEL'DINOV, I.A.; TSYUR, K.I.

Modulus of elasticity and heat resistance of polyvinyl alcohol
acetals. Plast.massy no.5:7-11 '61. (MIRA 14:4)
(Vinyl compounds)

TSYURIK, A. A.

"Quality Improvement of Cotton Hosiery of Studying and Developing Methods for Elimination of the Defects of Loop-Forming Members." Sub 25 Jun 47, Moscow Textile Inst

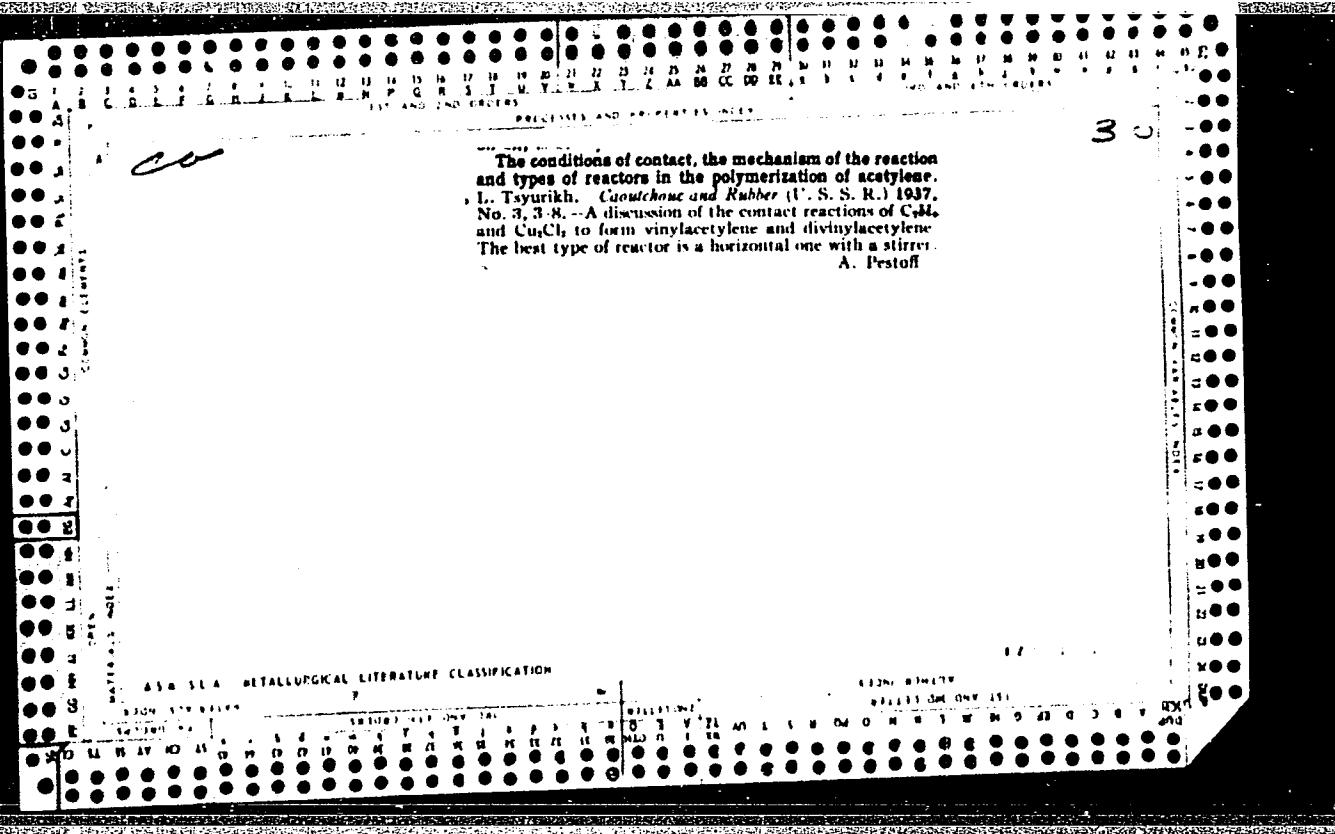
Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

TRIVUNIK, A. A. . . . Cand. Tech. Sci.

Dissertation: "Quality Improvement of Cotton Manuf. by Studying and Developing the Methods for Elimination of the Defects of Loop-Forming Members." Novosy Terille Inst, 25 Jun 47.

SO: Vechernaya Moskva, Jun, 1947 (Project #17836)



TSYURIK, Vladimir Filippovich; SHAKHALIN, Aleksandr Akimovich;
KHAVKUNOV, P.Ya., red.; PAVLOVA, A.S., red. izd-va;
KOZLENKOVA, Ye.I., tekhn. red.

[Preservation of raw leather and garment sheepskins] Kon-
servirovanie kozhevennogo syr'ia i shubno-mekhovoi ovchiny.
Moskva, Izd-vo TSentrosoiuza, 1961. 65 p. (MIRA 15:10)
(Hides and skins--Preservation)

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sada no.16:60-63 '53. (MLRA 7:4)

1. Botanicheskiy sad Rostovskogo gosudarstvennogo universiteta im.
V.M.Molotova. (Germination) (Growth-inhibiting substances)

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42478. Priemy Agrotekhniki Bakhchevykk Kul'tur. V. SP: Osnovnyye vyyody
Po Folevym Opytam Za 1945-1947 GG. (Ukr. Nauch.-Issled. In-T Zernovogo Kh.cz-Va
Im Kuytysheva. Erast. Opyt. Pole) Dnepropetrovsk, 1948. S. 90-97.

TSYURKO, A.F.

Rostov Province conference of roentgenologists and radiologists.
Vest. rent. i rad. 35 no. 5:81 My-Je '60. (MIRA 14:2)
(RADIOLOGY, MEDICAL--CONGRESSES)

KREYNDLIN, A.N.; SAPRYKIN, V.A.; ZIL'BERMAN, R.I., inzh.; MELIK-PARSADANOVA, A.I.,
inzh.; MOLCHANOV, O.I., inzh.; NIKONOV, M.A., inzh.; FROLOV, D.G.,
inzh.; TSYURUPA, A.L., inzh.; NOVITCHENKO, K.M., inzh., red.

[Album-catalog of designs of units, shops, and construction yards
for making large brick blocks] Al'bom-katalog proektor ustanovok,
tsakhov i poligonov po izgotovleniu krupnykh kirkichnykh blokov.
Moskva, Gosstroizdat, 1960. 35 p. (MIRA 13:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii,
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Proyektno-konstruktorskoy kontory "Industroyproyekt" (for Kreyndlin).
3. Zamestitel' direktora po nauchnoy chasti Nauchno-issledovatel'skogo
instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroi-
tel'stva; deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury
SSSR (for Saprykin). (Building blocks)

STARUKHIN, N.M., inzh.; BOGATYKH, Ya.D., inzh.; TRUBIN, V.A., glav. red.;
SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.p YEFIFANOV,
S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A.,
red.; TSYURUPA, A.L., inzh., nauchnyy red.; GORDEYEV, P.A., red. izd-
va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on masonry operations] Spravochnik po kamennym rabotam.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam,
(MIRA 14:10)
1961. 198 p.

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zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.
(Masonry)

TSYURUPA, A.I.

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intrusion of granites (eastern part of the Dzungarian Ala-Tau).
Biul.MOIP.Otd.geol. 36 no.6:104-105 N-D '61. (MIRA 15:7)
(Dzungarian Ala-Tau--Breccia)

TSYURUPA,A.L., inzhener; BAYYER,Ye.Ya, inzhener

Mechanizing the production and installation of large sized
gypsumtag-concrete partitions. Mekh. stroi. 12 no.4:6-14
(MLRA 8:6)
Ap. '55.
(Precast concrete construction)

TSYURUPA, B. N.

Forest Nurseries

Influence of organic-mineral fertilizer on the growth of oak seedlings,
Les 1 step' No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952.
Unclassified.

TSYURUPA, B.N., kand. biol. nauk

Changes of physiological processes during the transformation
of spring varieties of barley and wheat into winter varieties.
Agrobiologija no.2:195-199 Mr-Ap '65. (MIRA 18:11)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

TSYURUPA, B.N.; SIRITSA, A.I.

Optimum temperatures for seed germination of certain trees and
shrubs. Biul.Glav.bot.sada no.22:92-93 '55. (MLRA 9:5)

1. Botanicheskiy sad Rostovskogo gosudarstvennogo universiteta
imeni V.M. Molotova.
(Germination) (Plants, Effect of temperature on)

USSR / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72888.

Author : Tsyurupa, B. N.

Inst : Rostov on Don University.

Title : Influence of Various Soil Moisture and Fertilizers
on Morphological Characteristics of Spring Wheat
"Melyanopus 69" in Connection With Bending.

Orig Pub: Uch. zap. Rostovsk.-n/D. un-ta, 1957, 28, 97-102.

Abstract: Experiments were conducted in vegetation containers.
With an increase in soil moisture to 60-80% of full
moisture capacity, the stability of the culm is
somewhat increased; however, the weight on the stem
in addition is increased to a significant degree
which leads to bending of the wheat; diameters of
the internodes and nodes are increased, and in ad-
dition the hardness of the culm grows together with

Card 1/2

20

USSR / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72888.

Abstract: its resistance to fracturing. However, with a
double dose of fertilizers the stability of the
culm decreased, in spite of its increased thick-
ness. A single dose of fertilizers (N 0.1 g,
 P_2O_5 2 g and K_2O 0.05 g per 1 kg of absolute dry
soil) somewhat increased the stability of the
stems. -- Yu. L. Guzhev.

Card 2/2

Tsyurupa, I.S. IV,
USSR, Forestry - Forest Plants.

K-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10607
Author : Tsyurupa, B.N., Deyanova, I.I.
Inst : Botanical Garden of Rostov-na-Donu University
Title : Swelling of Certain Woody-Undergrowth Seeds.
Orig Pub : Sb. tr. Botan. sada Rostovsk. n/D un-ta, 1956, 35, No 2,
103-108.

Abstract : A study was made of swelling of honey locust, tartar maple, sharp-leaved maple, small-leaved and large-leaved linden, /svidina/, dog rose, privet, amorfa, fluffy ash, and eastern white cedar seeds in moist sand and in water at temperatures of 10° and 20°. It has been clarified that both in water and in moist sand the water is absorbed by all species more intensively at 20° temperature than at 10°. The following periods of swelling before stratification in

Card 1/2

TSYURUPA, B. N.

2/142 TSYURUPA, B. N. Vliyanije predshestvuyushchikh usloviy razvitiya i rosta na
semennoye potomstvo perilly (Perilla ocymoides L.) uchen. zapiski (Rost.
ND Gos. Ped. IN-T), VIP, 2, 1948, c. 73-79.

SO: Letopis, No. 32, 1940.

DESOV, A.Ye., doktor tekhn.nauk, prof.; GORDON, S.S., kand.tekhn.nauk; POPOV, L.N., kand.tekhn.nauk; KOCHUNOV, K.M., inzh.; KAZBEK, Z.A., inzh.; TSYURUPA, A.L., inzh.

Results of the examination of rolling mills operating with the N.IA.Kozlov equipment and suggestions for improving the technology. Trudy NIIZHB no.33:205-225 '64. (MIRA 18:2)

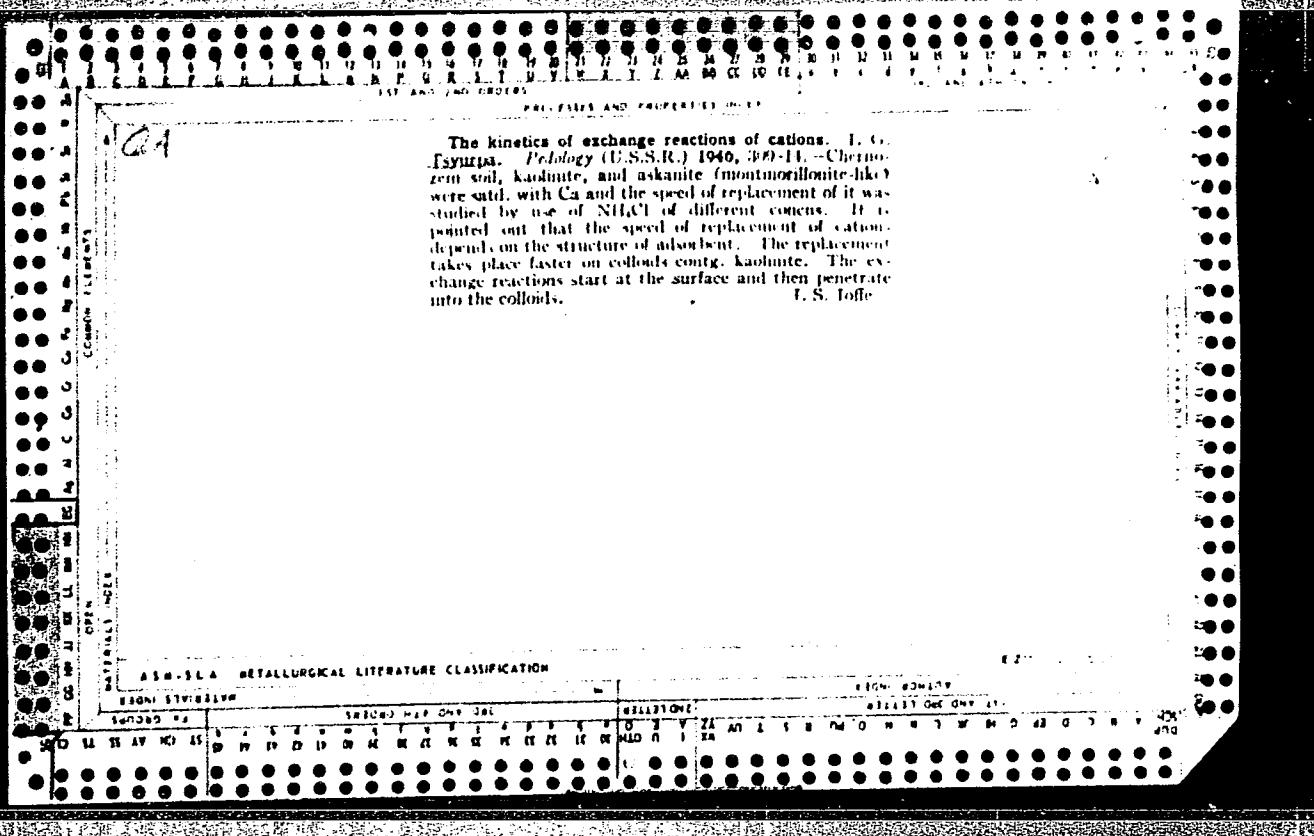
1. Nauchno-issledovatel'skiy institut betona i zhelezobetona Gosstroya SSSR (for Desov). 2. Nauchno-issledovatel'skiy institut zhelezobetonnykh izdeliy, stroitel'nykh i nerudnykh materialov (for Gordon). 3. Nauchno-issledovatel'skiy institut Glavnogo upravleniya po zhilishchnomu i grazhdanskому stroitel'-stvu v gorode Moskva (for Popov). 4. Moskovskiy institut t'chnovogo eksperimental'nogo proyektirovaniya (for Kochunov). 5. NIISTroy-i eksperimental'nogo proyektirovaniya (for Kazbek). 6. Nauchno-issledovatel'skiy institut organifiziki (for Tsyurupa).

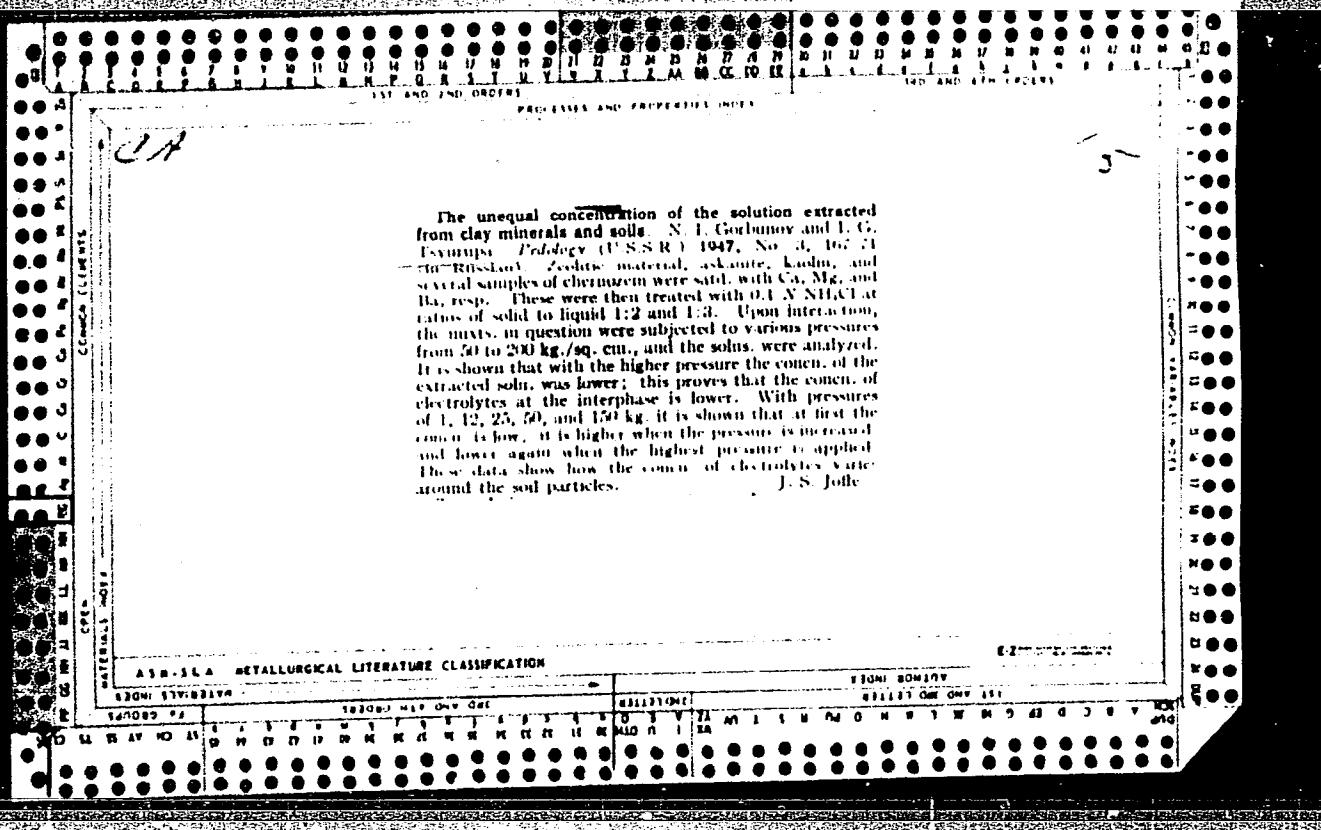
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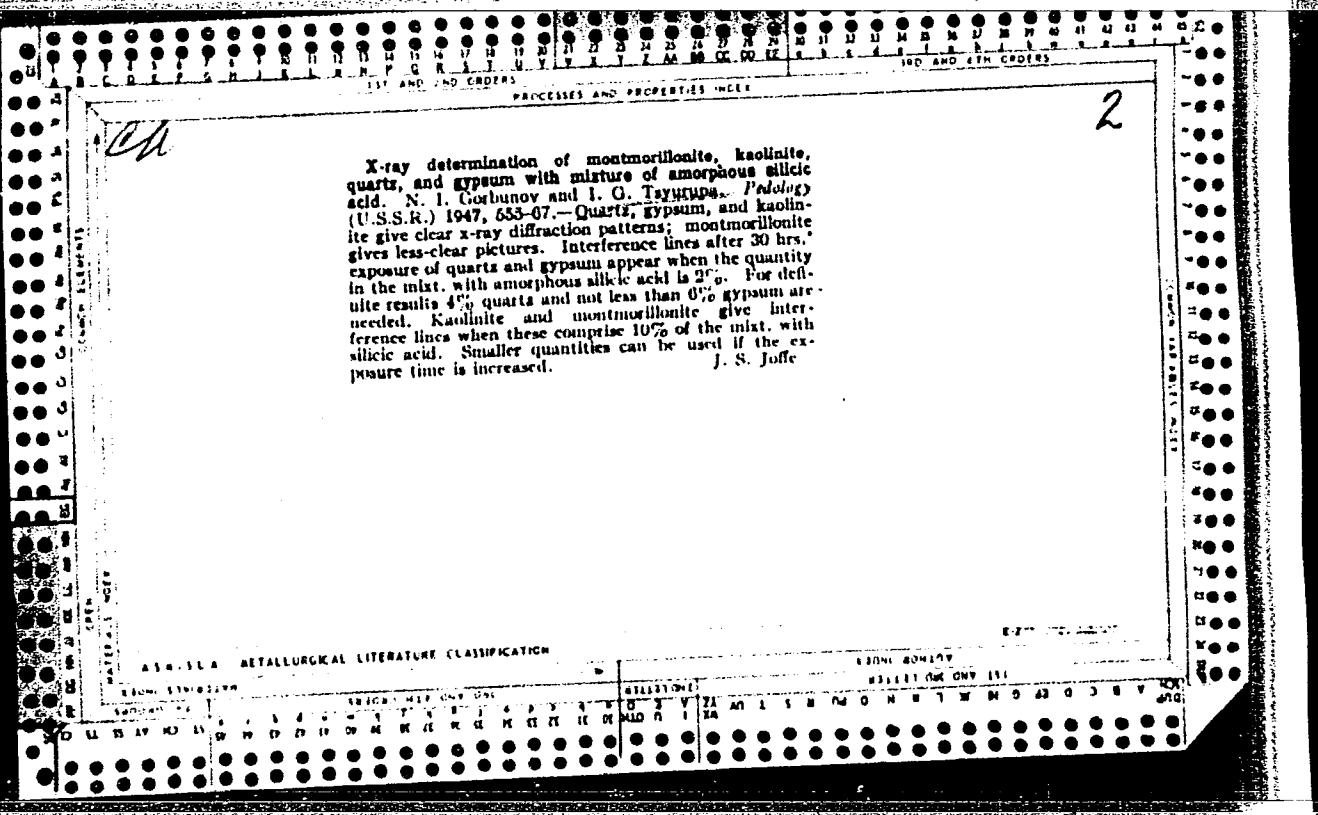
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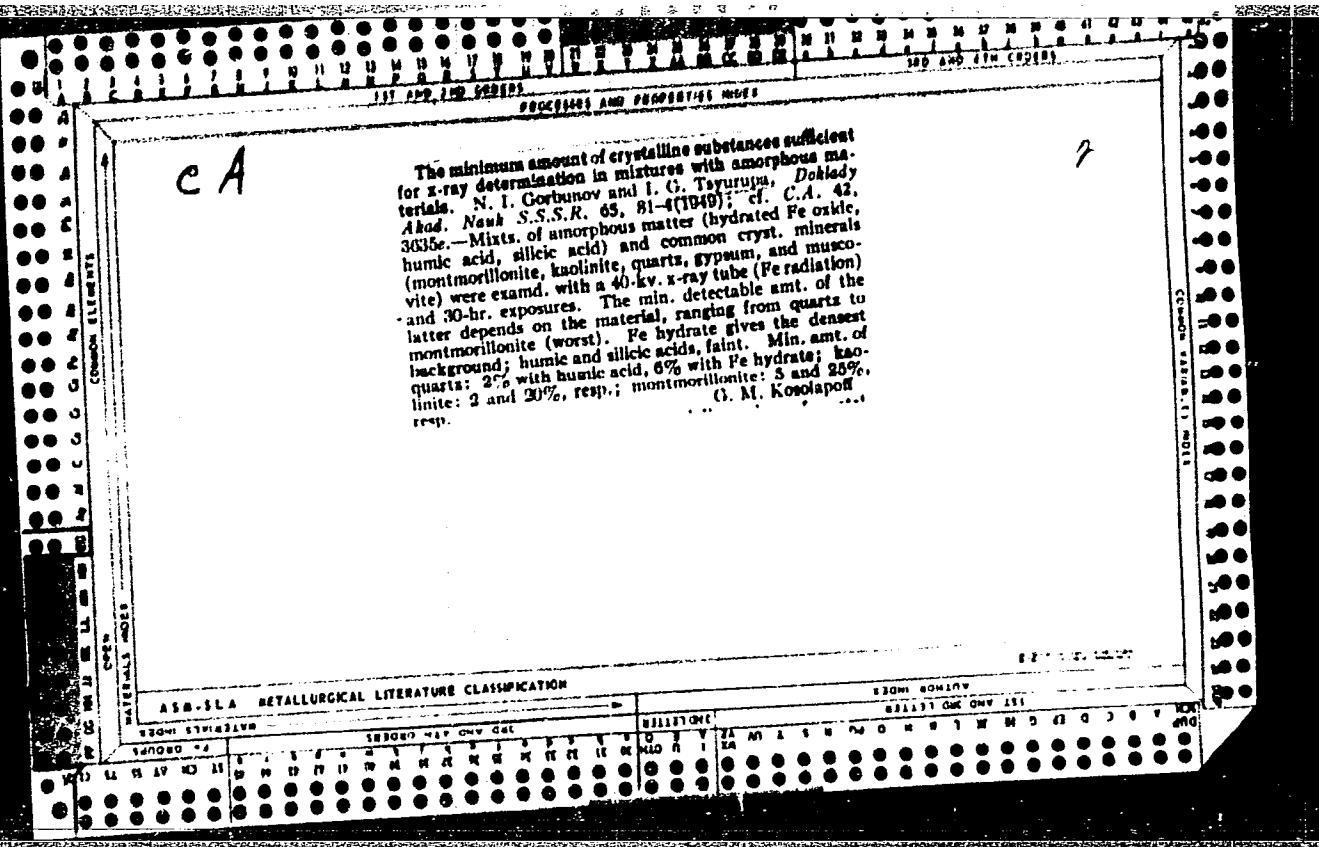
APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757320019-6"









CA

15

Mineralogical characteristics of silt fractions obtained from soils and clays. N. I. Gorbulov, I. G. Tsyurupa, and E. A. Shurygina. *Doklady Akad. Nauk S.S.R.* 68, 149-51 (1949).—Treatment of soil or clay sample with dil. mineral acids, followed by water washing, neutralization by KOH or NaOH, shaking, and boiling yields a smaller amt. of particles below 0.001 mm. diam. than obtainable by 15-20 min. repeated kneading in the form of thick "dough" with H₂O, but a single kneading gives reverse results. In all cases the small particles are very similar and are predominantly hydrophobes: mica, hydro-mica, kaolinite, etc. The minerals of montmorillonite group are higher in the small particle fraction after 2nd kneading than after the 5th or 6th kneading.
G. M. Kosolapoff

Sci Inst. in Dokuchayev AS USSR

*Soils & Hydrology 10**CA*

Description of cations from soils and clays. I. G. Tryzura. *Prudy Pochvovedeniya*, im. V. V. Dokuchieva Akad. Nauk S.S.R.

No. 31, 5-72 (1950).—The desorption of exchangeable cations, especially Ca and Mg, diminished with the narrowing of the ratio between the soln. (with a constant concn. of cations) and sorbent, as tested on different sub-types of chernozem, Ca humate, different sources of kaolinite, and montmorillonite (sakanite). A sharp decline in desorption took place when the ratio dropped below 3:1. Replacement of bivalent cations by a univalent cation decreased sharply with diln., i.e. a constant quantity of cations but of variable concn. Replacement with a bivalent cation was independent of diln. The wider the ratio of soln. to sorbent, the faster was the exchange of cations. If the soil colloids were of the montmorillonite type, the speed of exchange was slower than in the case of kaolinitic minerals. The concn. of desorbed cations in the various aliquots obtained from the soil or the clay minerals was not uniform. The first aliquots were higher than the following. The seat of the point of max. concn. of the soln. changed with the moisture content and nature of the sorbent. The unequal concn. of desorbed cations in various aliquots of the soil soln. hindered the application of existing equations on the adsorption exchange of cations; these equations were used for conditions of a wide ratio between the liquid and solid

phases. The removal of cations from the lower horizons of the soil profile was much faster than from the upper layers contg. more org. matter. Slightly decomposed org. matter of a young meadow on a chernozem-like soil had no influence on the desorption of exchangeable Ca. Mature chernozem did influence the desorption of Ca. To get an accurate picture of the retentive force holding the exchangeable cations in soils it was essential to take equiv. wts. (calcd. on the basis of the exchange capacity) rather than wts. of soil. The desorption of Ca from kaolinite by electrolytes was much faster than from montmorillonite. Various cations in one and the same sorbent were endowed with different strengths of adsorption and mobility.

J. S. Joffe

C.A.

Optimal conditions for x-ray studies of particle sizes separated from soils and clays. N. I. Gorbulov and I. G. Tsurupa. *Doklady Akad. Nauk U.S.S.R.* 77, 717-20 (1957).
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